

**PAT-NO:** JP405168686A  
**DOCUMENT-IDENTIFIER:** JP 05168686 A  
**TITLE:** PACKAGE FOR TREATING FILTH

**PUBN-DATE:** July 2, 1993

**INVENTOR-INFORMATION:**

<b>NAME</b>	<b>COUNTRY</b>
NONAKA, TAKENOBU	

**ASSIGNEE-INFORMATION:**

<b>NAME</b>	<b>COUNTRY</b>
MEIJI YAKUHIN KOGYO KK	N/A

**APPL-NO:** JP03356331

**APPL-DATE:** December 24, 1991

**INT-CL (IPC):** A61L009/01 , B65D065/46 , B65D077/00 , B65F001/14

**ABSTRACT:**

**PURPOSE:** To remove the nasty smell generated from filth by the deodorant contained in the package by dissolving the packaging material by the moisture content in the filth, such as vomit.

**CONSTITUTION:** The deodorizing components prep'd. by compounding one or  $\geq 2$  kinds selected from vegetable essential oils and terpenes in the vegetable essential oils with menthol are deposited on a powdery material to prepare the powdery deodorant. The deodorant is packed and hermetically sealed alone or together with a water-absorptive resin into the packaging material consisting of a water-soluble film.

**COPYRIGHT:** (C)1993,JPO&Japio

## \* NOTICES \*

JPO and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

## DETAILED DESCRIPTION

---

### [Detailed Description of the Invention]

[0001]

[Industrial Application] This invention is contained mainly into a plastic film bag etc., and relates to the package object for waste treatment which can catch quickly the offensive odor generated from the vomit by the alcohol drunkenness and motion sickness which were vomited in this plastic film bag etc., and can carry out waste treatment exactly.

[0002]

[Description of the Prior Art] In order that the vomit by alcohol drunkenness, \*\*\*\*, etc. may soil a perimeter in vehicles, such as an ambulance, a taxi, a sight-seeing bus, a passenger boat, and a passenger transport, and a banquet hall, a restaurant and others, while it is very dirty, an odor remains, also after dispersing an intense odor and removing vomit. Since alcohol is contained in the vomit especially by drinking, that odor is intense, see this vomit, an odor is smelled, or a feeling worsens continuously among the persons who did in many cases.

[0003] On the other hand, those who are carried by the ambulance have not only the sick person that requires emergency but very many acute alcoholism persons and the so-called drunkards, and, for a certain reason, the case vomited by in the car [ in the middle of carrying into a hospital for first aid ] has taken against them a measure which usually reserves the disposable bag made from plastics in an ambulance, and is vomited in it plentifully.

[0004]

[Problem(s) to be Solved by the Invention] Since an odor remained for the intense odor generated from vomit even after removing vomit, by the taxi or the ambulance, \*\*\*\*(ing) in in the car sprayed the spray-type deodorant on in the car, and was aiming at removal of an odor, but when vomit had adhered to the sheet etc., it was very difficult to \*\*\*\* to remove the odor completely. since it is especially pressed with the allowance in the ambulance, when a passenger is taken down and it is unoccupied, the case which will sprinkle a deodorant mostly comes out, and trouble and the effort of a rescue crew member which ride together have an unfathomable thing.

[0005] This invention contains vomit to a plastics bag etc., in view of the \*\*\*\*\* present condition, on the occasion of \*\*\*\*, is little, deodorizes the vomit in a bag completely, and it uses as an offer plug the package object for waste treatment which can solidify the vomit in a bag and can make the handling in corrective action advantageous at the same time it prevents in advance the offensive odor which veils in the car.

[0006]

[Means for Solving the Problem] It is characterized by the 1st package object for waste treatment forming the deodorant which the powder matter was made to support the deodorization component which comes to blend with menthol one sort chosen from the terpenes under vegetable essential oil and this vegetable essential oil, or two sorts or more, and carried out disintegration, and being filled up with this deodorant into the wrapping material which consists of a water soluble film, in order to attain said purpose, and coming to seal.

[0007] Moreover, the 2nd package object for waste treatment forms the deodorant which the powder matter was made to support for menthol the deodorization component which comes to blend one sort chosen from the terpenes under vegetable essential oil and this vegetable essential oil, or two sorts or more, and carried out disintegration to it, and is characterized by it being filled up with this deodorant and absorptivity resin into the wrapping material which consists of a water soluble film, and coming to seal them.

[0008] In this invention, each deodorization component which the powder matter is made to support makes menthol a subject, and comes to blend one sort chosen as this menthol from the terpenes under vegetable essential oil and this vegetable essential oil, or two sorts or more.

[0009] The vegetable essential oil to be used has orange oil, lemon oil, a mandarin orange oil, peppermint oil, lemon grass oil, a eucalyptus oil, lavender oil, and desirable camphor oil. On the other hand, as terpenes under said vegetable essential oil, a citral, a limonene, a cineole, linalool, and terpineol are used preferably, and, as for these, its one sort or two sorts or more are used.

[0010] The blending ratio of coal of said deodorization component is desirable, menthol is 55 % of the weight - 60 % of the weight especially preferably 50% of the weight or more, and the remainder is chosen from the terpenes under said vegetable essential oil and this vegetable essential oil.

[0011] The powder matter which makes a \*\*\*\*\* deodorization component support has desirable use of minerals powder, such as organic powder, such as a dextrin, and a porosity silica, on the powder of oil absorption nature with which the shape of an oil can carry out \*\*\*\* absorption support of said deodorization component, and a concrete target. As high organic powder of especially oil absorption nature, a pineapple flow (trade name of the dextrin by Matsutani chemistry incorporated company), Oil Q (trade name of the dextrin by SAIDEN CHEMICAL INDUSTRY CO., LTD.), etc. are desirable, for example. Moreover, Carplex (trade name of the porosity silica by Shionogi & Co., Ltd.) etc. is desirable as minerals powder.

[0012] Although the amount of said deodorization component added to this powder matter must generally have been \*\*\*\*\* (ed) since it changes with the class of deodorization component, and combination with the powder matter, to the sum total weight of a deodorization component and the powder matter, in general, a deodorization component can make even 60 % of the weight a limit, and can apply it. If there are many aforementioned deodorization components, while it is little and use of the disintegration deodorant obtained since the deodorization effectiveness increased so much can be finished, superfluous use has a possibility that the restoration to an wrapping material may become difficult, in order to tincture with a wettability the deodorant which carried out disintegration and for a fluidity to be missing. Moreover, since it stops demonstrating sufficient deodorization effectiveness when there are too few deodorization components, the amount of a disintegration deodorant will be increased and it becomes disadvantageous economically.

[0013] It consists of a water soluble film which dissolves quickly and easily by contacting water as an wrapping material which carries out the restoration package of the powdered deodorant. Said heat sealing at the time of a package other than water solubility is possible for this film, it is desirable that it is the film of the gas barrier nature which does not penetrate the vaporization component from an internal deodorant, for example, the film of polyvinyl alcohol (PVA) etc. is used suitably.

[0014] In the 2nd invention, well-known absorptivity resin, such as hydrolyzate of a starch-acrylonitrile graft copolymer, a cellulose-acrylonitrile graft copolymer, polyacrylate that constructed the bridge, an acrylic-acid-acrylic ester copolymer which similarly constructed the bridge, and bridge formation polyethylene oxide, can be used as absorptivity resin by which a restoration package is carried out with the deodorant which carried out disintegration. Generally, since these absorptivity resin has hundreds times as much absorptivity ability as a self-weight, processing sufficient by just blending the small quantity of 1g unit in general into an wrapping material may be possible, and absorptivity resin may be the thing of the gestalt of the sheet which the proper piece of-like [ sheet ] was made to support besides the shape of powder.

[0015] Although two or more package objects for waste treatment acquired by this invention are fundamentally thrown in in the bag which does not absorb moisture, such as a bag made from plastics,

depending on addressing to one piece, and the case and it is used by making sordes, such as vomit, \*\*\* in a bag If it is the sordes which has moisture required to dissolve the water soluble film of an wrapping material, it can be used also laying in this sordes, or by supplying.

[0016]

[Function] When it is fundamentally contained and used into a plastics bag, the plastics bag which contained this package object for waste treatment is reserved in vehicles, such as an ambulance, a taxi, a sight-seeing bus, a passenger boat, and a passenger transport, a banquet hall, a restaurant, and others and the man of alcohol drunkenness or motion sickness holds vomiting, the package object for waste treatment of this invention applies direct opening to opening of this bag, and is made to vomit it in \*\*\*.

[0017] In the package object for waste treatment of the 1st invention, the wrapping material which consists of a water soluble film with the moisture of the vomit \*\*\* (ed) by the plastics bag dissolves quickly, the deodorant by which restoration seal was carried out into the wrapping material is full in a bag, and the nasty smell generated from vomit is deodorized.

[0018] Since absorptivity resin is made to live together in the package object for waste treatment of the 2nd invention with the deodorant which carried out disintegration into the wrapping material While deodorizing the nasty smell which the deodorant which the water-soluble wrapping material dissolved quickly and was sealed by the moisture of vomit in the wrapping material is full in a bag, and generates from vomit, the absorptivity resin in an wrapping material absorbs, and gels the moisture in vomit, makes the fluidity of vomit lose, and can solidify.

[0019]

[Example] Hereafter, the example of the package object for waste treatment of this invention is shown, and it explains to a detail.

[0020] 37.5g of orange oil was blended with example 1 menthol 5.0g as vegetable essential oil, and the liquefied deodorization component was prepared. In addition to pineapple flow 63g of the previous statement which is the dextrin of oil absorption nature, 87.5g of this deodorization component was agitated, the powdered deodorant was obtained, it filled up with 1.5g of this deodorant at a time the bag which consists of a 30mmx30mm polyvinyl alcohol film, heat sealing closed opening in a bag, and the package object for waste treatment was acquired.

[0021] Example 2 menthol was made into the subject, various kinds of vegetable essential oil was blended with this, and the liquefied deodorization component of the following presentation was prepared.

メントール	5 5. 3 g
オレンジ油	3 6. 1 g
ペパーミント油	4. 8 g
レモングラス油	3. 8 g
計	1 0 0. 0 g

100g of obtained deodorization components was added to Carplex 72g of previous statement, they were agitated, and it considered as the powder-like deodorant, and filled up 1.2g at a time polyvinyl alcohol bag manufacture of 30mmx30mm with this, respectively, heat sealing closed opening in a bag, and the package object for waste treatment was acquired.

[0022] Example 3 menthol was made into the subject, various kinds of vegetable essential oil was blended with this, and the liquefied deodorization component of the following presentation was prepared.

メントール	5 6. 7 g
オレンジ油	1 9. 5 g
ミカン油	1 1. 9 g
ペパーミント油	5. 9 g
シトラール	3. 8 g
ユーカリ油	2. 2 g
計	1 0 0. 0 g

100g of obtained deodorization components was added to pineapple flow 73g of previous statement, and the deodorant which carried out disintegration by churning was obtained. Subsequently, it filled up the bag made from 30mmx30mm polyvinyl alcohol with 1.3g of this deodorant at a time, respectively, heat sealing closed opening in a bag, and the package object for waste treatment was acquired.

[0023] Example 4 menthol was made into the subject, various kinds of vegetable essential oil was blended with this, and the liquefied deodorization component of the following presentation was prepared.

メントール	5 8. 0 g
レモン油	2 0. 0 g
ミカン油	1 2. 2 g
ペパーミント油	6. 0 g
ショウノウ油	3. 8 g
計	1 0 0. 0 g

100g of obtained deodorization components was added to the powder of a 70g dextrin, and the deodorant which carried out disintegration by churning was obtained. Subsequently, SUMIKAGERU which is 1.2g and an acrylic water-absorbing resin about the deodorant of the above [ bag / made from 30mmx30mm polyvinyl alcohol ] - It was filled up with 1g of powder of N100 (trade name of Sumitomo Chemical Co., Ltd.), heat sealing closed opening in a bag, and the package object for waste treatment filled up with a deodorant and absorptivity resin was acquired.

[0024] The package object for waste treatment acquired in the aforementioned examples 1, 2, 3, and 4 was addressing[ to one piece ]=contained to polyethylene bag manufacture of 30cmx30cm, and a total of four waste treatment bags were made. When these waste treatment bags were actually loaded into one ambulance and the deodorization test by vomiting into said plastics bag of an acute alcoholism person etc. was performed (four tests), perfect no odor-ized processing was able to be performed without missing the odor of vomit out of a bag also in which waste treatment bag. In addition, about the waste treatment bag which contained the package object of an example 4, vomit was able to be immediately gelled in the bag, was able to turn into a solid, and was able to discard this easily as the \*\*\*\* kitchen garbage.

[0025]

[Effect of the Invention] In this invention the 1st package object for waste treatment Since make the powder matter support the deodorization component which blended the terpenes under vegetable essential oil and this vegetable essential oil with menthol, it carries out disintegration, it considers as a deodorant and restoration seal of this deodorant is carried out into the wrapping material which consists of a water soluble film If this package object for waste treatment is contained into a petit stick bag and the waste treatment bag is formed, since an wrapping material will dissolve with the moisture of the vomit \*\*\*\*(ed) in this waste treatment bag The deodorant by which seal maintenance was carried out into this wrapping material can be full in a bag, and the nasty smell generated from vomit can be deodorized nearly completely. Since it can use more deodorants by making the powder matter support while the handling of a deodorant is easy for it, since especially the package object for waste treatment of the 1st invention can be used with the very easy means of making the powder matter support a

liquefied deodorization component, it demonstrates the very high deodorization effectiveness. [0026] The package object for waste treatment of the 2nd invention is what carried out restoration seal of the absorptivity resin into the wrapping material which consists of a water soluble film with the deodorant which carried out disintegration. At the same time it dissolves when an wrapping material touches the moisture contained in vomit etc., and the deodorization component sealed in the wrapping material emits aroma around and it deodorizes a nasty smell. Since absorptivity resin absorbs the moisture of vomit etc. and the fluidity of a sordes is made to lose in gelation of absorptivity resin, a sordes can be processed very simply and easily.

[0027] The package object for waste treatment which comes to seal the deodorant which carried out disintegration to the wrapping material of \*\*\*\*\* water solubility or a deodorant, and absorptivity resin is contained to a plastics bag, is used as a waste treatment bag, it reserves this waste treatment bag in vehicles, such as an ambulance, a taxi, a sight-seeing bus, a passenger boat, and a passenger transport, and a banquet hall, a restaurant and others, and it can carry out waste treatment, without giving displeasure to a perimeter by making vomit \*\*\*\* in this waste treatment bag. Moreover, while deodorizing certainly the nasty smell emitted from a sordes also by making the package object for waste treatment of this invention intermingled in the sordes which has moisture, such as vomit and a kitchen garbage, waste treatment can also be performed easily. Furthermore, the powder matter is made to support a liquefied deodorization component, and it considers as a deodorant, and has the advantage of being able to attain a cost cut, fertilization, and a miniaturization of goods by that for being producible by the very easy method of being filled up with this into a water-soluble wrapping material.

---

[Translation done.]